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(54) METHOD AND DEVICE FOR PACKING POWDER

(57)Abstract:

PROBLEM TO BE SOLVED: To pack powder into a forming mold quickly, highly densely and also uniformly by throwing in a prescribed amount of powder in a forming mold, forming an airtight space of a prescribed capacity, and repeatedly imparting decompression and release of inner pressure to this airtight space in a high speed cycle.

SOLUTION: With a forming mold 3 set in a die 2, the guide cylinder 12 of a cover body 5 and a seal reinforcing frame 8 are combined on top of the die so set. The forming mold 3 is formed along the inner shape of the die 2 by actuating a mold straightening means 9. A prescribed amount of a scaled powder is thrown in from above the guide cylinder 12 to the forming mold 3. The powder fills the molded recess 3a of the forming mold 3, and also is laminated into the guide cylinder 12. A cover part 13 is placed and fixed on the guide cylinder 12 to form an airtight space 6 facing the forming mold 3. Using a pressure tapping means 7, decompression and release of the internal pressure are repeated to the airtight space 6 in a high speed cycle. A high density packing is performed by tapping at a low decompression degree initially and at a higher degree successively.

